

MEETING OF THE BIOLOGICAL CLUB.

ORTON HALL, December 2, 1912.

The meeting was called to order by the President, W. G. Stover.

The presentation of papers followed the reading and approval of the minutes.

Mr. C. K. Brain gave the first paper on the "Internal Anatomy of *Stomoxys calcitrans*." This blood-sucking fly had been suggested as the agent in transmitting blood diseases in India and other tropical countries, some time back. In October of the present year, Rosenauer declared it to be the host of a part of the life cycle of the organism causing infantile paralysis, and transmits that disease. Anderson and Frost's work on monkeys in November, confirmed the idea.

Experiments by the Ohio State Board of Health point to a mechanical transmission by *Stomoxys*.

The digestive systems of *Stomoxys* and *Anopheles*, the malaria mosquito, were compared in detail and figured. The conditions in *Stomoxys* appear to be on the whole more complicated and elaborate than in the mosquito, though there is some reduction in number of mouth parts and no distinction between sexes can be made on the basis of mouth parts.

The abdominal sucking stomach and the abdominal position of the salivary glands are noticeable features in *Stomoxys*.

Prof. Landacre talked on the "Production of Germinal Variations." He spoke particularly of the work of Dr. Tower who has produced variations in the color patterns and antennæ of beetles by altering conditions of temperature and moisture. This work seems to give the best of the argument to the transmissionists.

Mr. W. G. Stover exhibited some specimens of Oklahoma fungi, calling attention especially to the wood forms, the grass forms, and the stink-horns. A number of these Oklahoma fungi are also found in Ohio.

The following persons were elected to membership in the Club: Walter R. Wheelock, Lillian E. Humphrey, Ralph R. Jeffries, Po Chen, Mary Storer.

The meeting was then adjourned.

MARIE F. McLELLAN, *Secretary*.